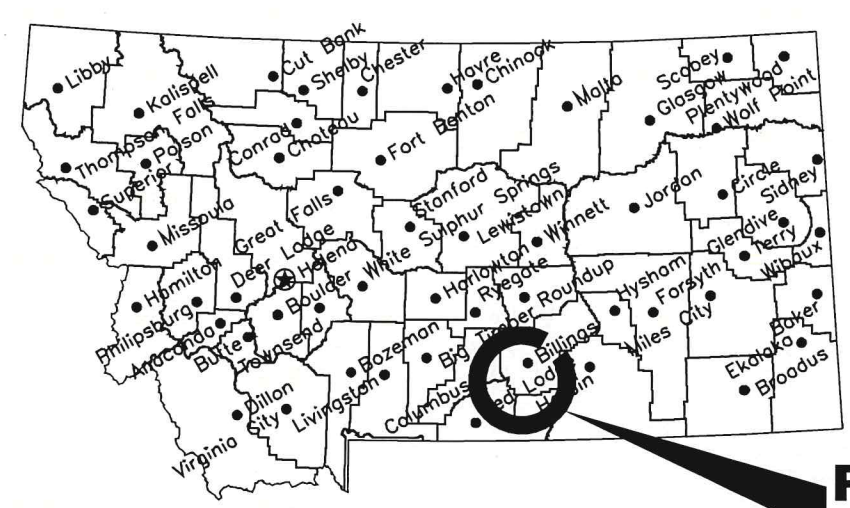


MONTANA FISH, WILDLIFE & PARKS

# COONEY STATE PARK SHORELINE STABILIZATION COTTONWOOD CAMPGROUND

near Roberts, MT

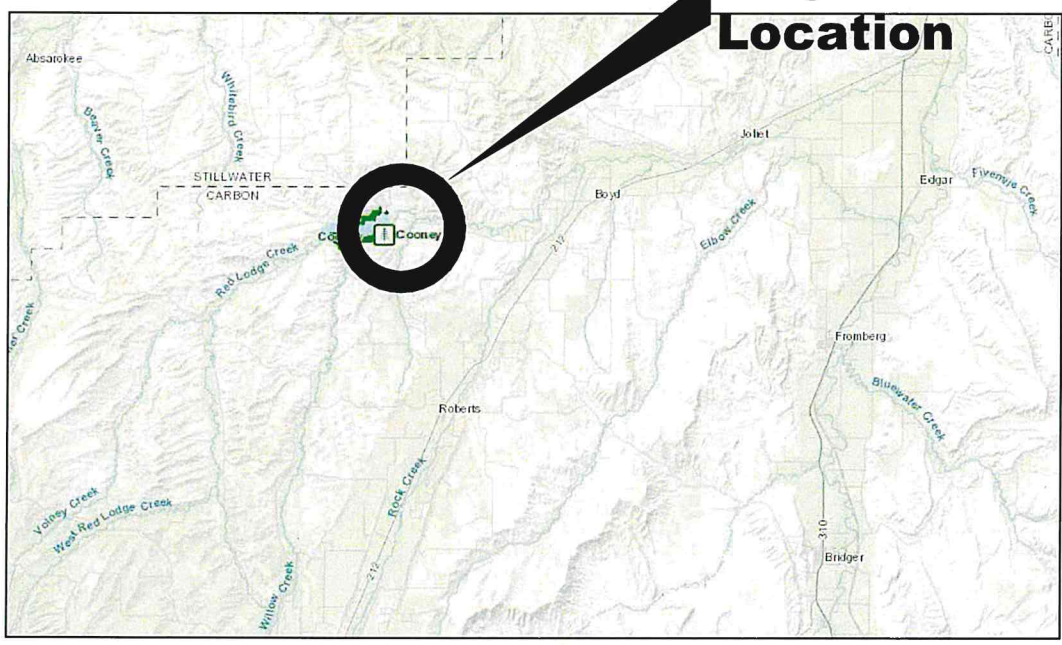
#7196128



**Location Map**

No Scale

**Project Location**



**Project Location**

**Vicinity Map**

No Scale

MONTANA FISH, WILDLIFE AND PARKS  
DESIGN AND CONSTRUCTION

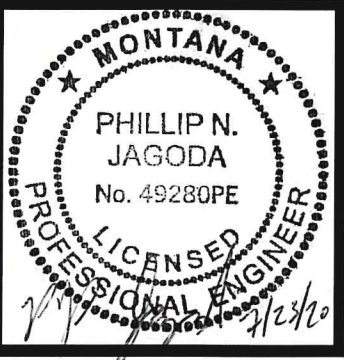
MAILING ADDRESS: PO BOX 200701  
HELENA, MT 59620-0701

PHYSICAL ADDRESS: 1522 9th AVENUE  
HELENA, MT 59601

TEL 406.841.4000  
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fwp.mt.gov/Doing Business/Design&Construction

## DRAWING INDEX

Sheet Number	Sheet Title
1	COVER SHEET
2	SITE PLAN
3	DETAIL SHEET I



P. Jagoda DRAWN BY:	7/23/20 DATE:	APPROVED BY:	DATE:	APPROVED BY:	DATE:
P. Jagoda CHECKED BY:	7/23/20 DATE:	APPROVED BY:	DATE:	APPROVED BY:	DATE:



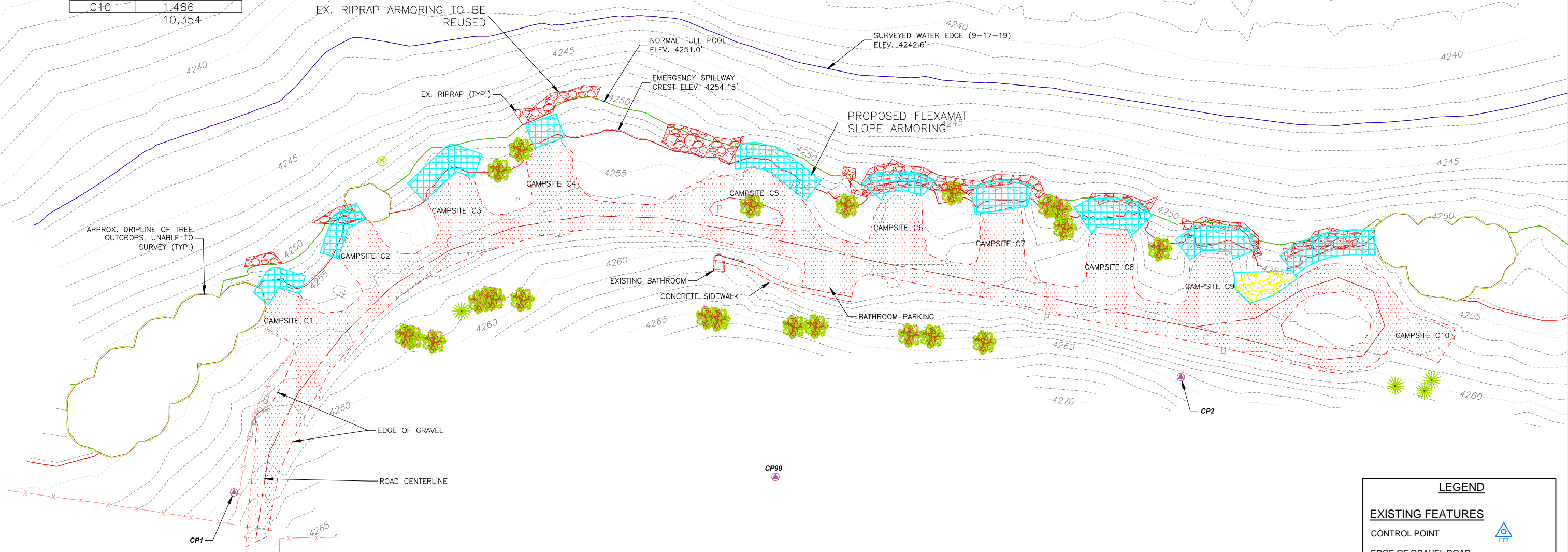
MONTANA FISH,  
WILDLIFE & PARKS

Cover Sheet  
Cooney State Park - Shoreline Stabilization Cottonwood Campground

SHEET: 1 of 3

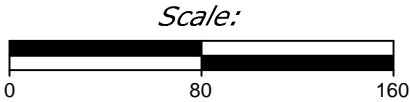
FLEXAMAT PLAN VIEW AREA	
CAMPSITE	AREA (SQ.FT.)
C1	661
C2	700
C3	1,244
C4	521
C5	1,442
C6	822
C7	1,017
C8	1,241
C9	1,220
C10	1,486
	10,354

COONEY DAM ELEVATIONS	
MAXIMUM DAM CREST	4267.0'
SETTLED DAM CREST	4265.0'
EMERGENCY SPILLWAY CREST	4254.15'
NORMAL FULL POOL	4251.0'
GUARD DIKE	4251.0'
PRINCIPAL SPILLWAY CREST	4247.25'
SURVEYED WATER EDGE (9-17-19)	4242.6'
*COONEY DAM REFERENCE ELEVATIONS PROVIDED BY DNRC. ELEVATIONS WERE NOT CONFIRMED W/ GPS DURING SURVEY.	



NOTES:  
 1. EXISTING CONDITIONS TAKEN FROM A PLAN PREPARED BY GREAT WEST ENGINEERING AND TITLED "COONEY STATE PARK FLOOD DAMAGE, EXISTING SITE PLAN: COTTONWOOD CAMPGROUND", DATED OCTOBER 10, 2019, PREPARED FOR MONTANA FISH, WILDLIFE, & PARKS PROVIDED IN BOTH ELECTRONIC & HARD COPY FORMAT.

LEGEND	
EXISTING FEATURES	
CONTROL POINT	
EDGE OF GRAVEL ROAD	
EX. CONTOUR	
EX. TREE	
EX. RIPRAP	
PROPOSED FEATURES	
FLEXAMAT	
RIPRAP	



P. Jagoda 7/23/20  
 DRAWN BY: DATE:  
 P. Jagoda 7/23/20  
 CHECKED BY: DATE:

REVISED BY: DATE:  
 APPROVED BY: DATE:

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 APPROVED BY: DATE:



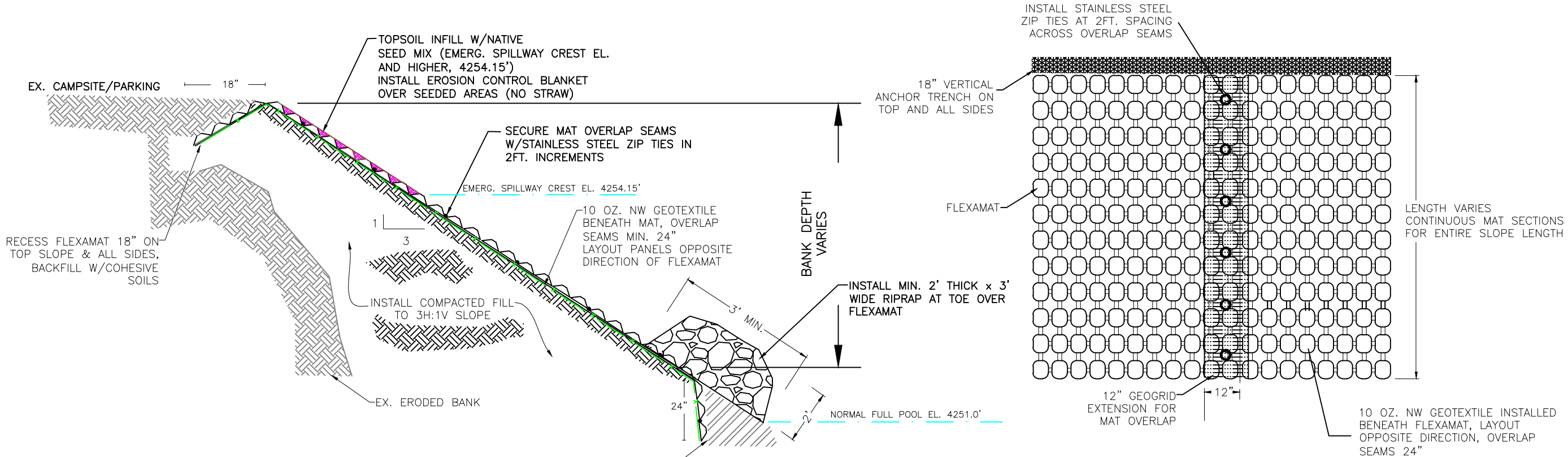
**MONTANA FISH,  
 WILDLIFE & PARKS**

## Site Plan

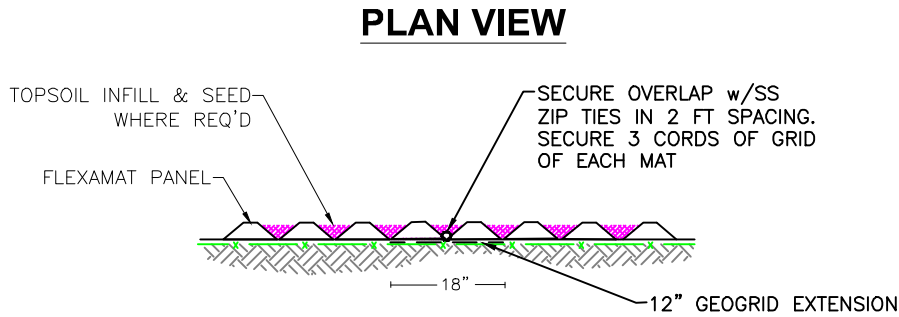
Cooney State Park - Shoreline Stabilization Cottonwood Campground

SHEET: 2 of 3





**PROFILE**



**SECTION VIEW**

**FLEXAMAT® INFORMATION**

Manufacturer: Motz Enterprises, Inc.  
Product Name: Flexamat  
Address: 3153 Madison Road  
Cincinnati, Ohio 45209  
Telephone: 513-772-6689  
Fax: 513-772-6690  
Email : Info@Flexamat.com  
Website: www.Flexamat.com

**CONSTRUCTION NOTES:**

1. CONTRACTOR SHALL CONTACT FLEXAMAT FOR ROLL LENGTH TAKEOFFS AND GEOGRID EXTENSIONS ON ROLLS PRIOR TO ORDERING MATERIAL.
2. PERFORM GRADING FOR A UNIFORM SUBGRADE. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF STICKS, ROOTS, OR DEBRIS OF ANY KIND. THE PREPARED SURFACE SHALL PROVIDE A FIRM UNYIELDING FOUNDATION FOR THE MATS.
3. PRIOR TO INSTALLING THE FLEXAMAT, INSTALL 10 OZ. NON-WOVEN GEOTEXTILE OVER SLOPES IN OPPOSITE DIRECTION OF FLEXAMAT (e.g. HORIZONTAL ALONG SLOPE CONTOURS). OVERLAP SEAMS OF GEOTEXTILE MIN. 24-INCHES.
4. INSTALL FLEXAMAT ROLLS THAT ARE 15.5' WIDE AND INCLUDE A 12" GEOGRID EXTENSION FOR OVERLAPPING MATS. THE TOP EDGE OF MAT SHALL BE ANCHORED 18" VERTICALLY IN ANCHOR TRENCH. INSTALL SUBSEQUENT MATS OVER THE 8" GEOGRID EXTENSION OF THE PREVIOUSLY INSTALLED ADJACENT MAT. MATS SHALL BE CONTINUOUS SECTIONS FROM TOP TO BOTTOM WITH NO SEAMS.
5. SECURE OVERLAP SEAMS IN 2 FT. INCREMENTS USING STAINLESS STEEL ZIP TIES. ZIP TIES SHALL ENCAPSULATE 3 CORDS OF GRID OF BOTH THE TOP MAT AND THE GEOGRID EXTENSION FROM ADJACENT MAT.
6. AT THE TOP AND BOTTOM ANCHOR TRENCHES, EMBED THE MAT THE REQUIRED DEPTH (18" & 24"), FILL AND COMPACT WITH COHESIVE SOILS.
7. INFILL THE FLEXAMAT WITH SOIL AS INDICATED ABOVE THE REQUIRED ELEVATIONS UP TO THE PARKING AREA AND SEED OVER THE INFILL WITH SITE SPECIFIC SEED BLEND, FERTILIZER AND EROSION CONTROL BLANKET.

P. Jagoda 7/23/20  
DRAWN BY: DATE:  
P. Jagoda 7/23/20  
CHECKED BY: DATE:

REVISED BY: DATE:  
APPROVED BY: DATE:

APPROVED BY: DATE:  
APPROVED BY: DATE:



**MONTANA FISH,  
WILDLIFE & PARKS**

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**Detail Sheet**

Cooney State Park - Shoreline Stabilization Cottonwood Campground

SHEET: 3 of 3